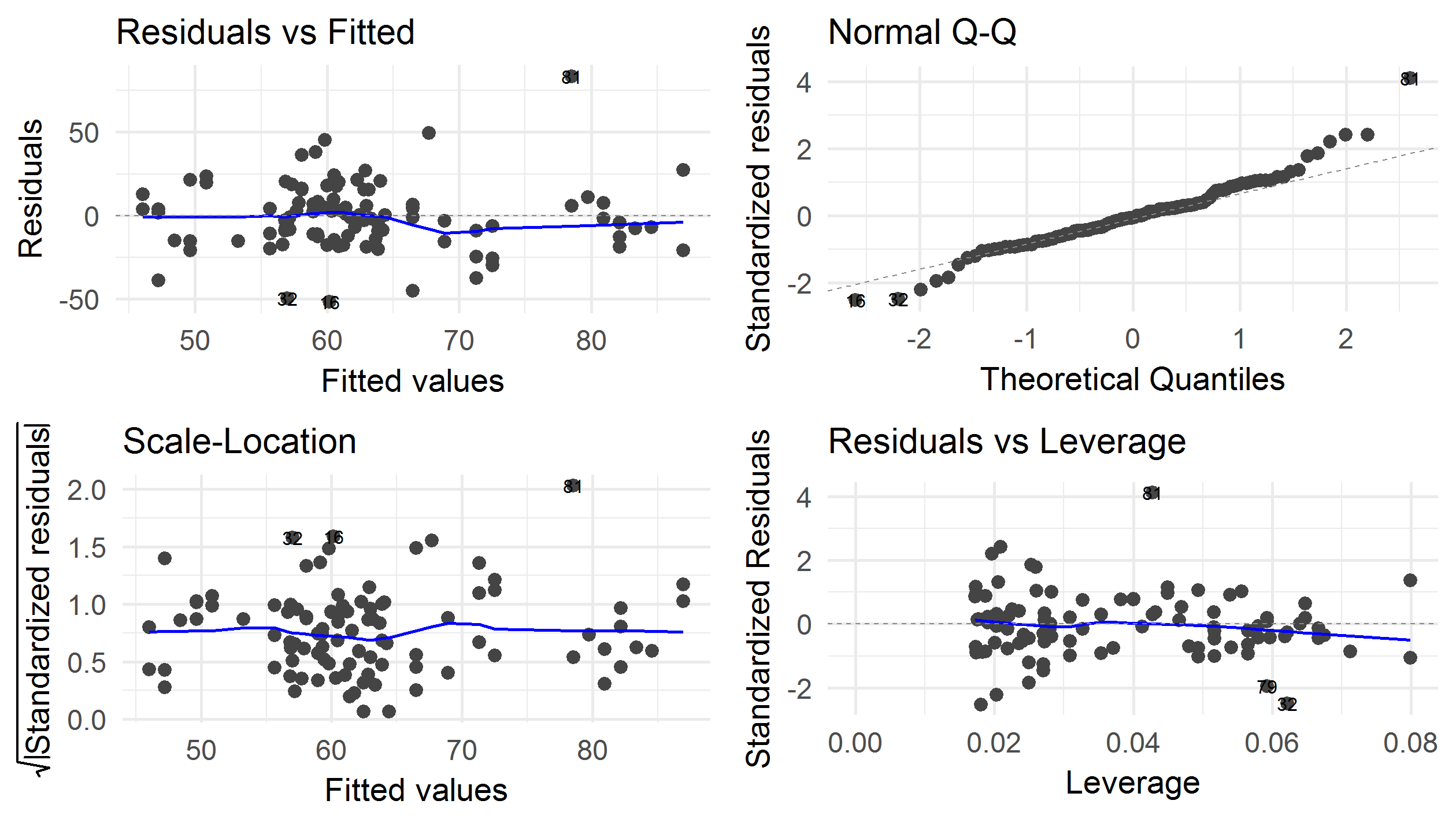
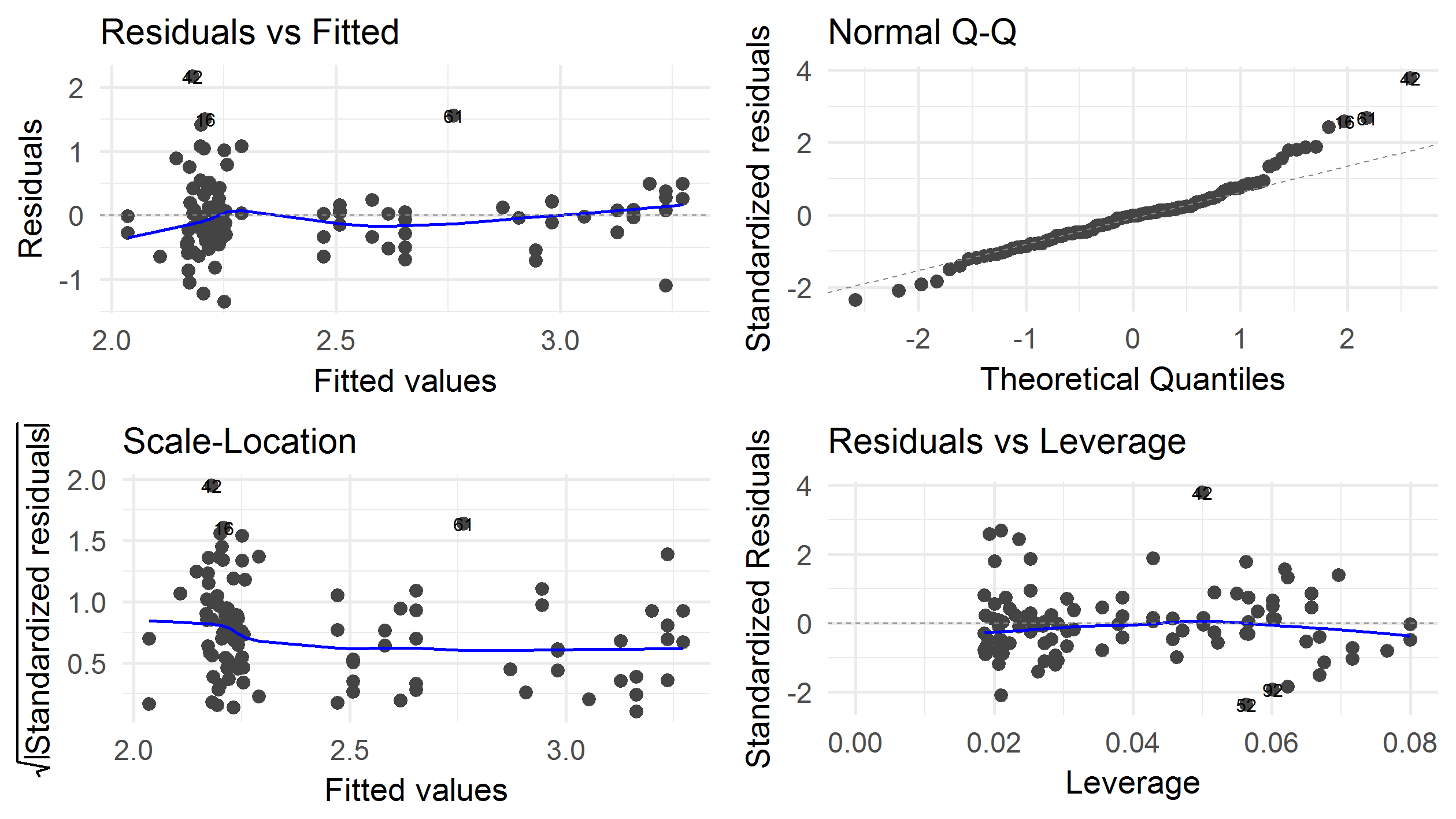
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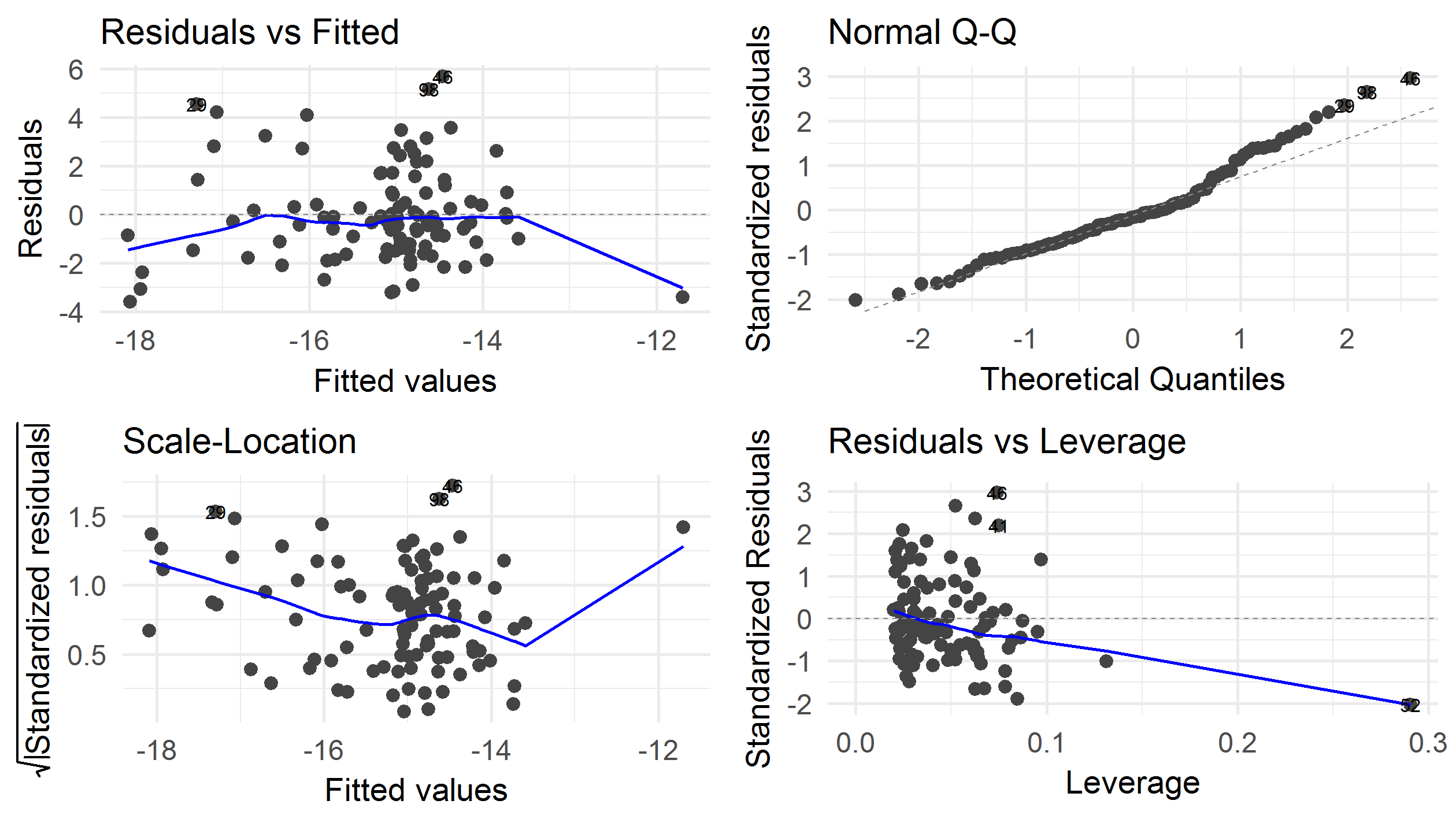
**Supplementary A RLC[rETRmax ] by Depth**

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

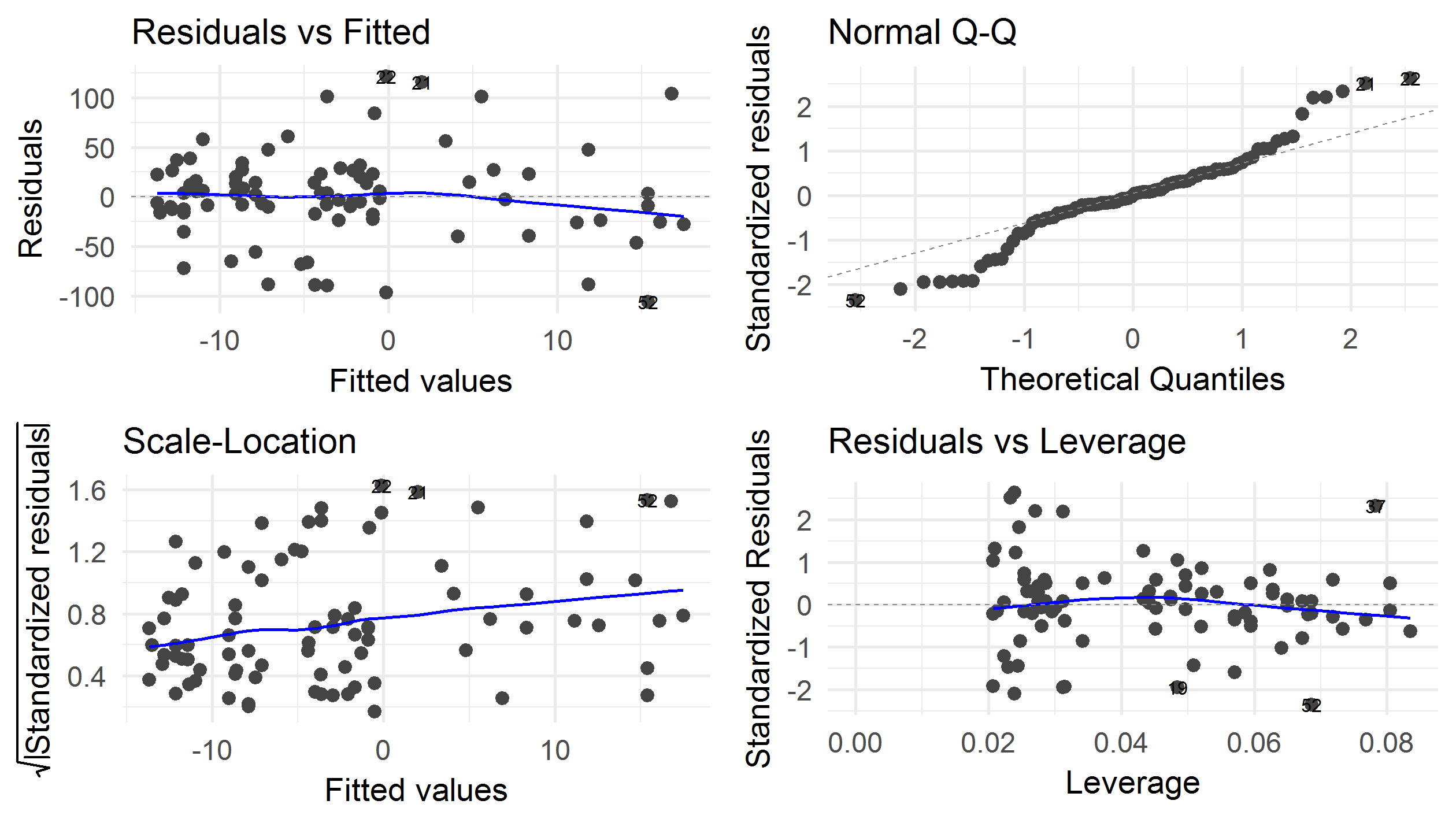
**

**Supplementary B Tissue δ15N by Depth**

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

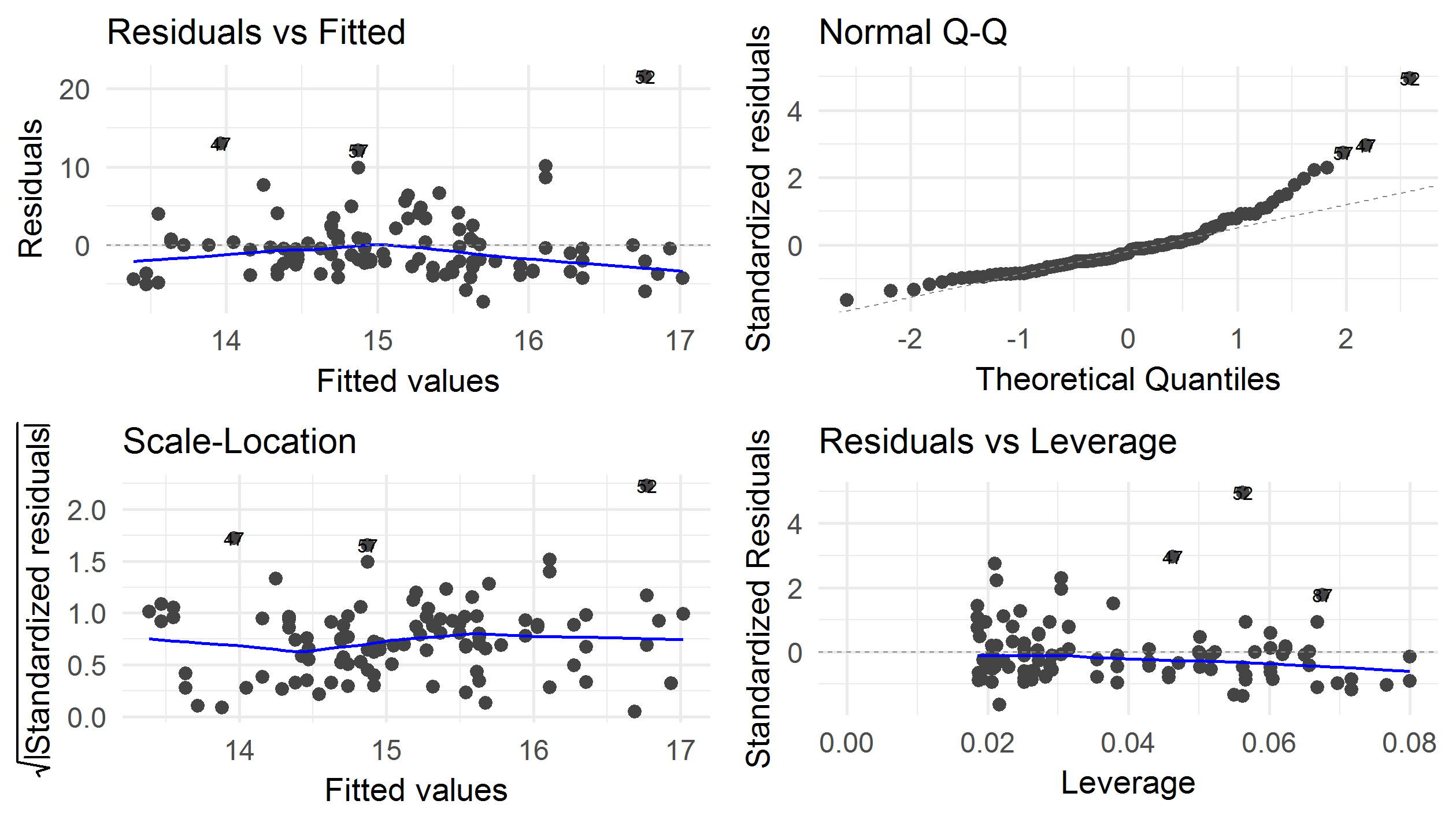
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Supplementary δ13C differential by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*******

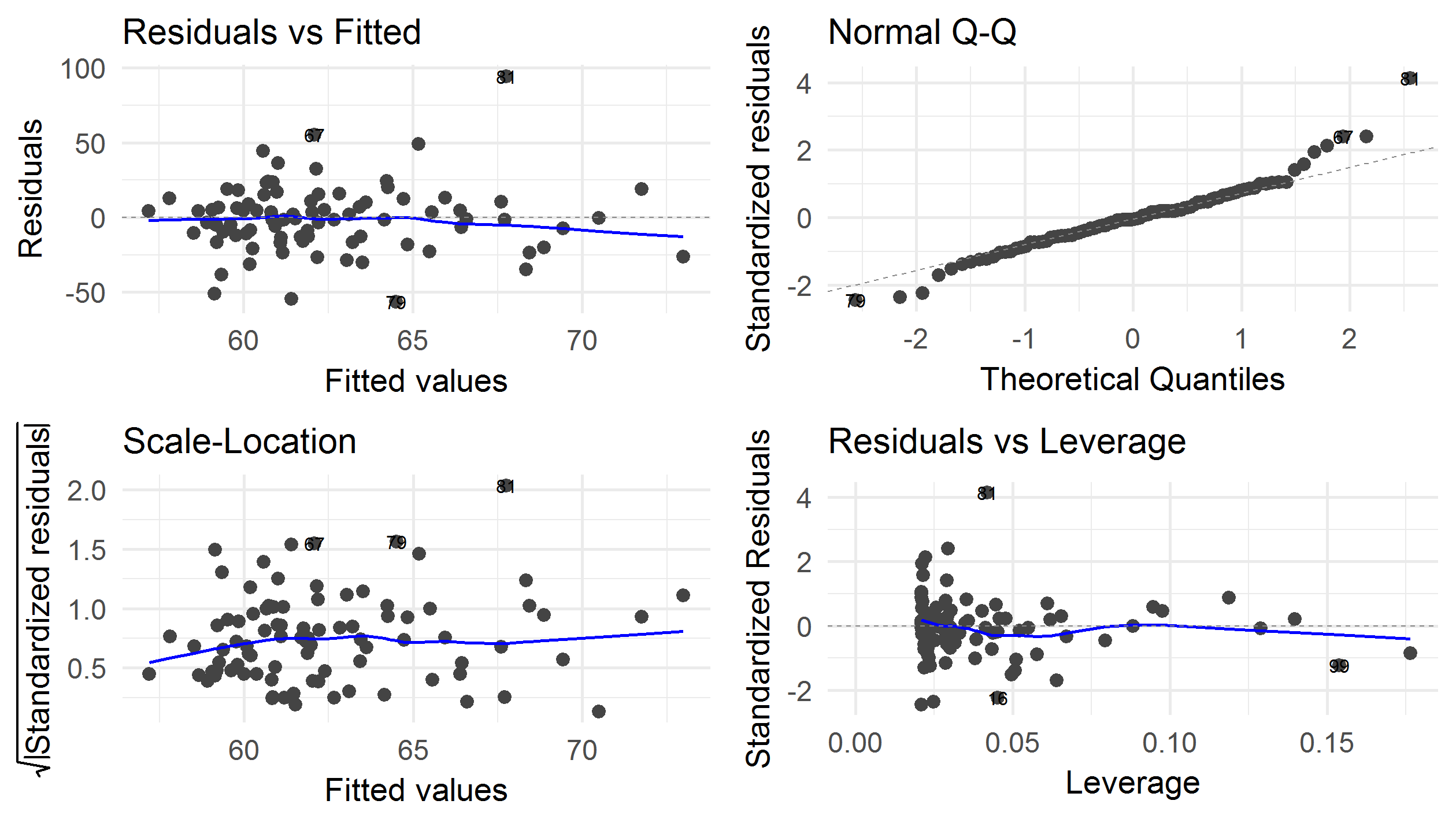
Supplementary Incubation δDO2 by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*



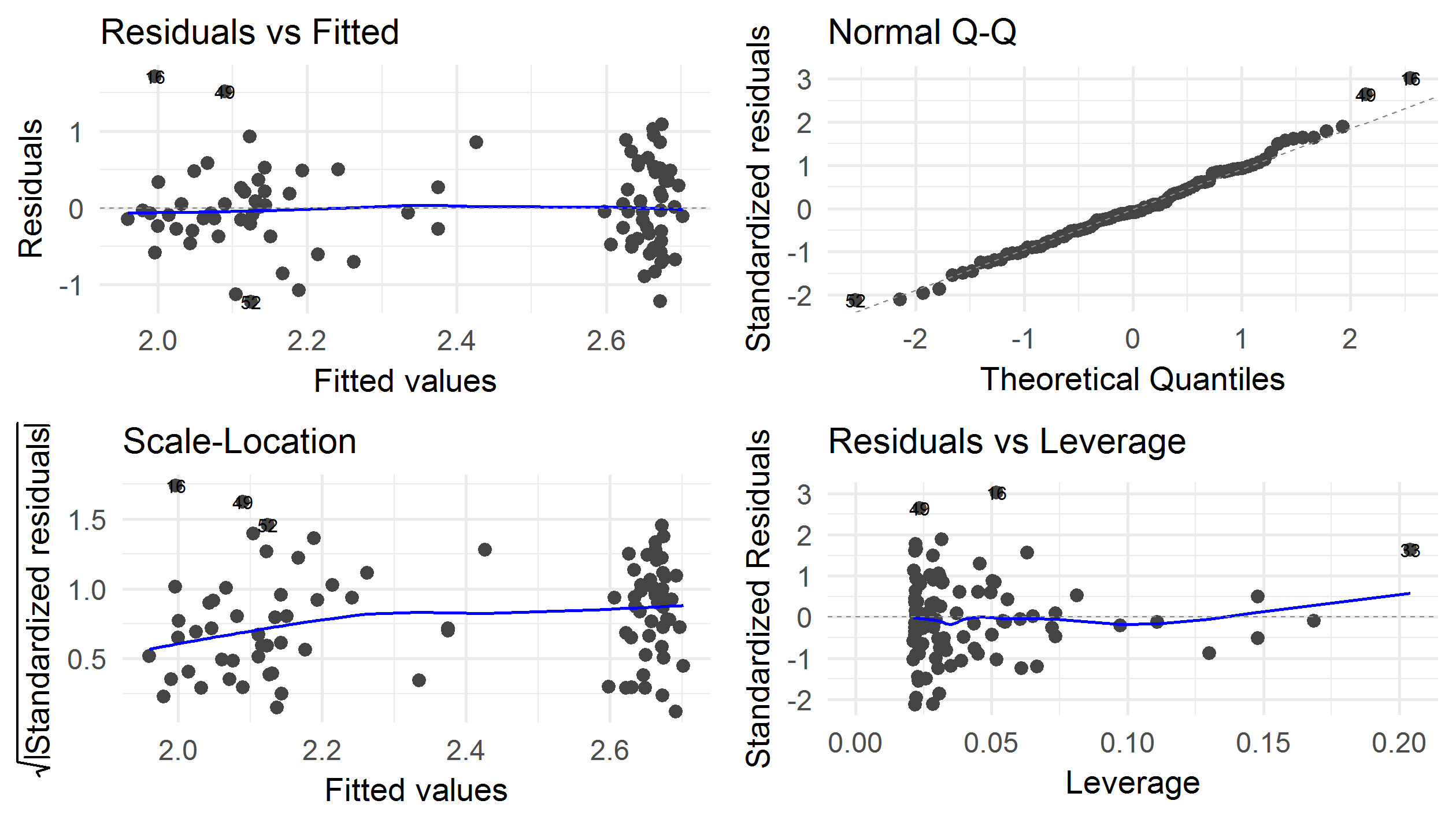
Supplementary Tissue molar C:N by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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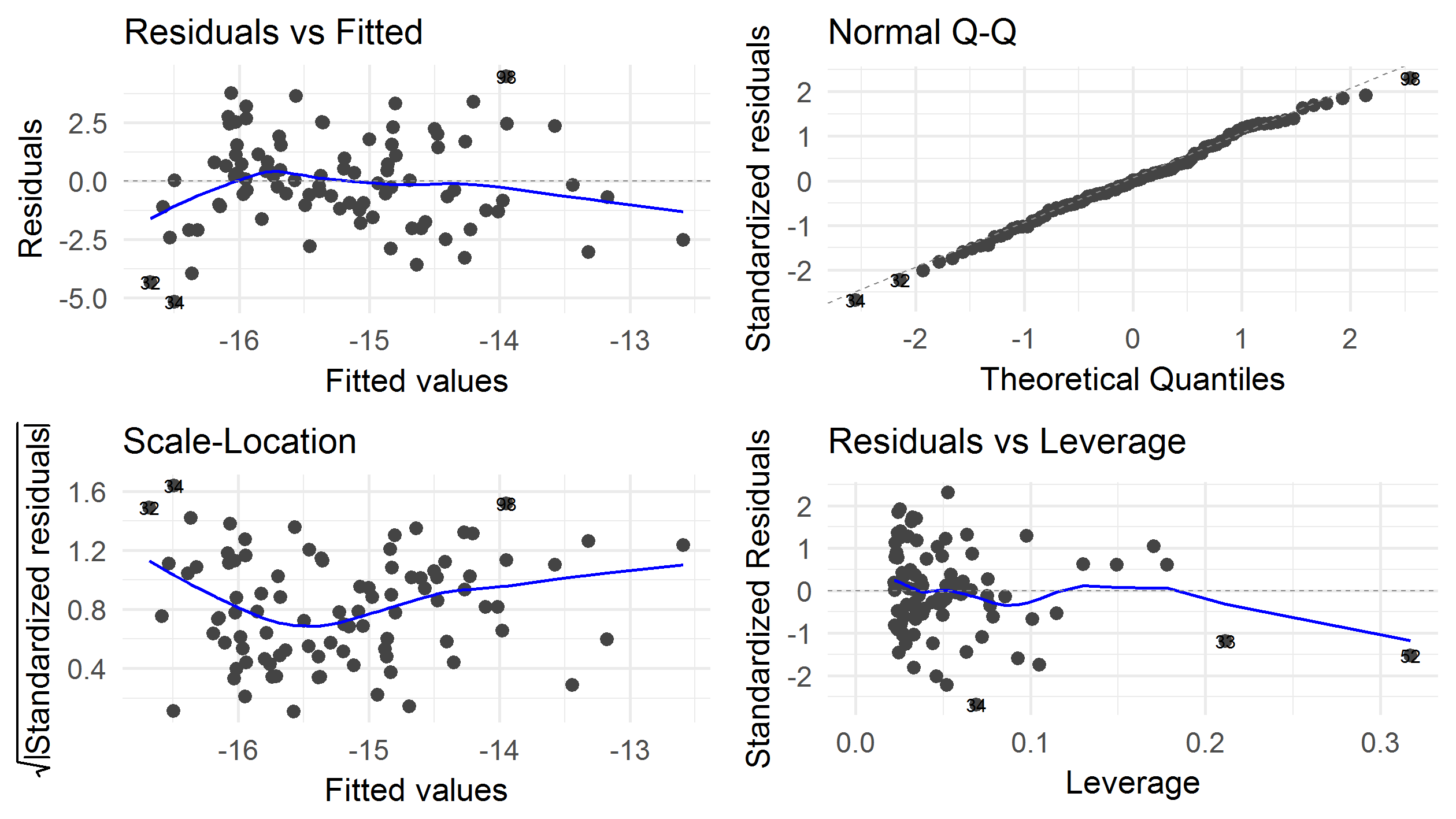
Supplementary RLC[rETRmax ] by DMSO:DMSP

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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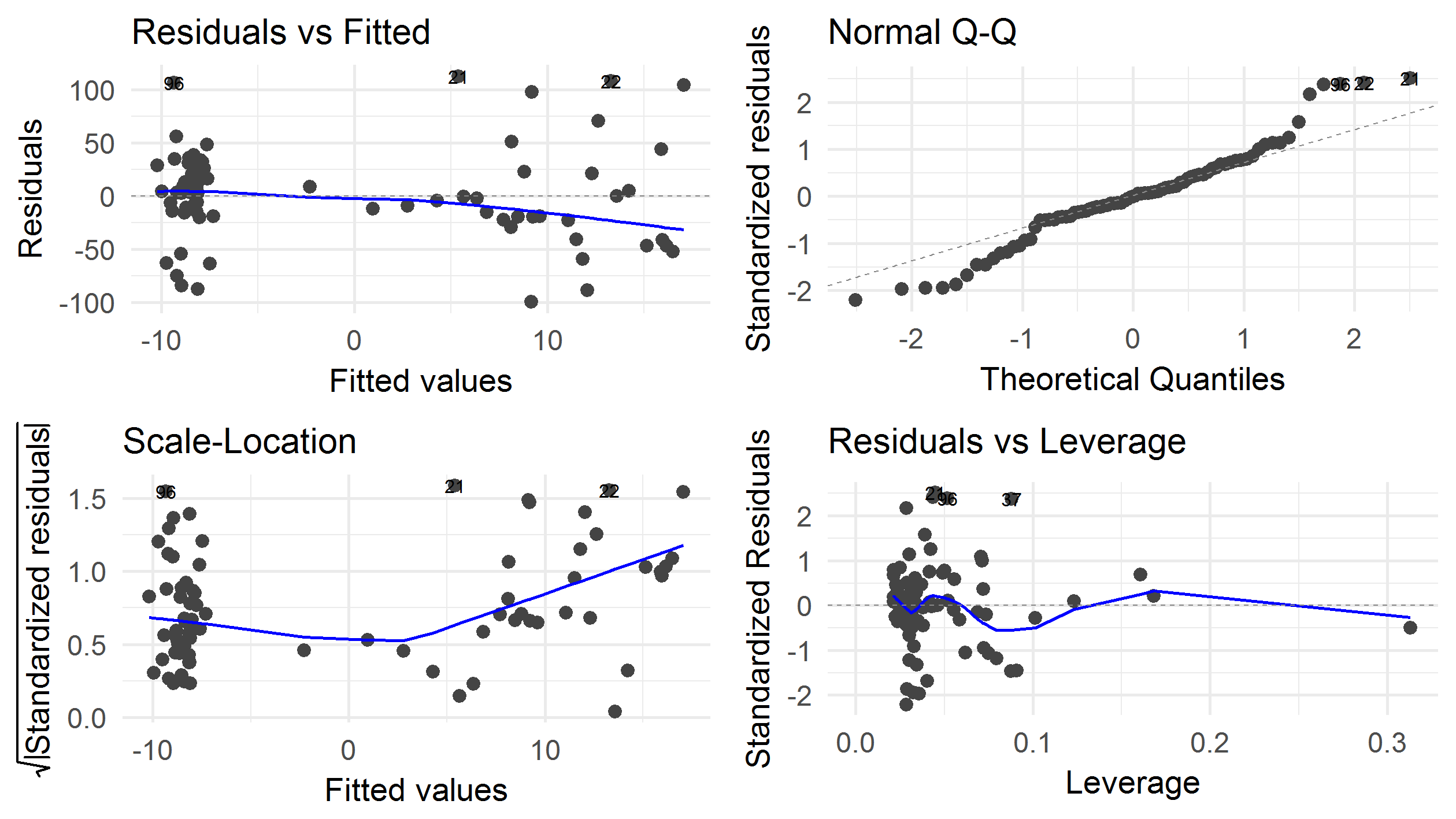
Supplementary Tissue δ15N by DMSO:DMSP

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*



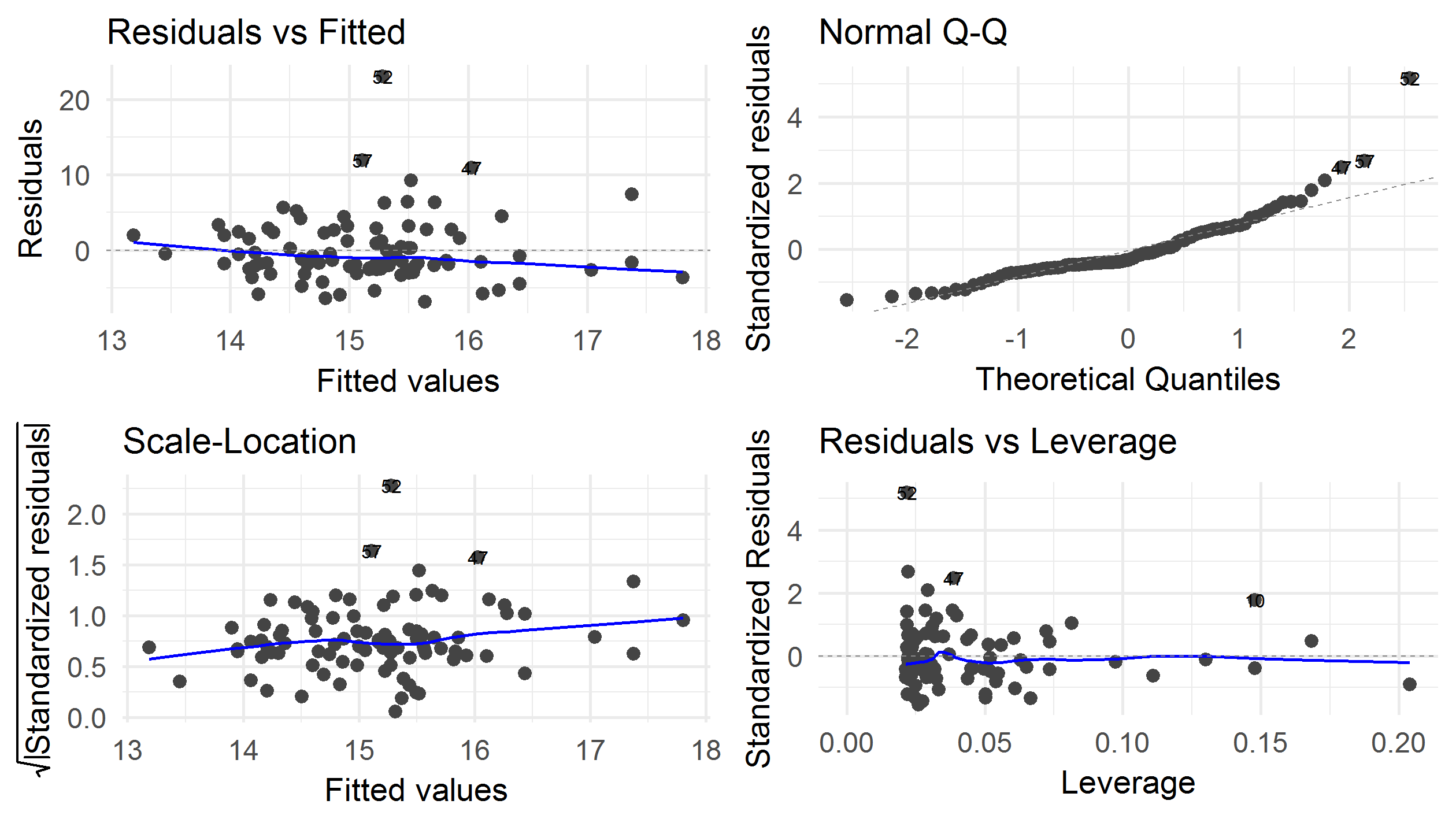
Supplementary δ13C differential by DMSO:DMSP

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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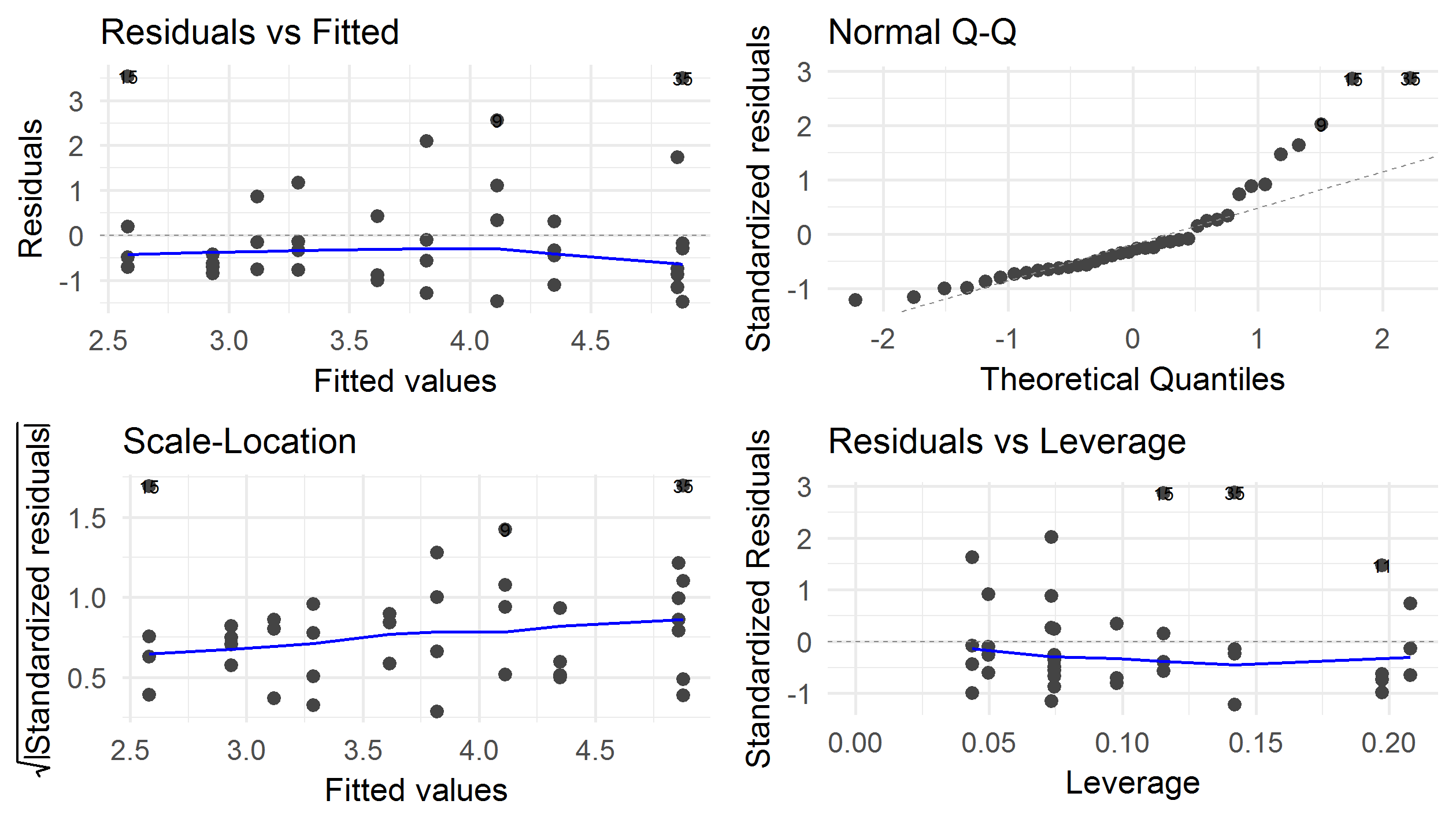
Supplementary Incubation δDO2 by DMSO:DMSP

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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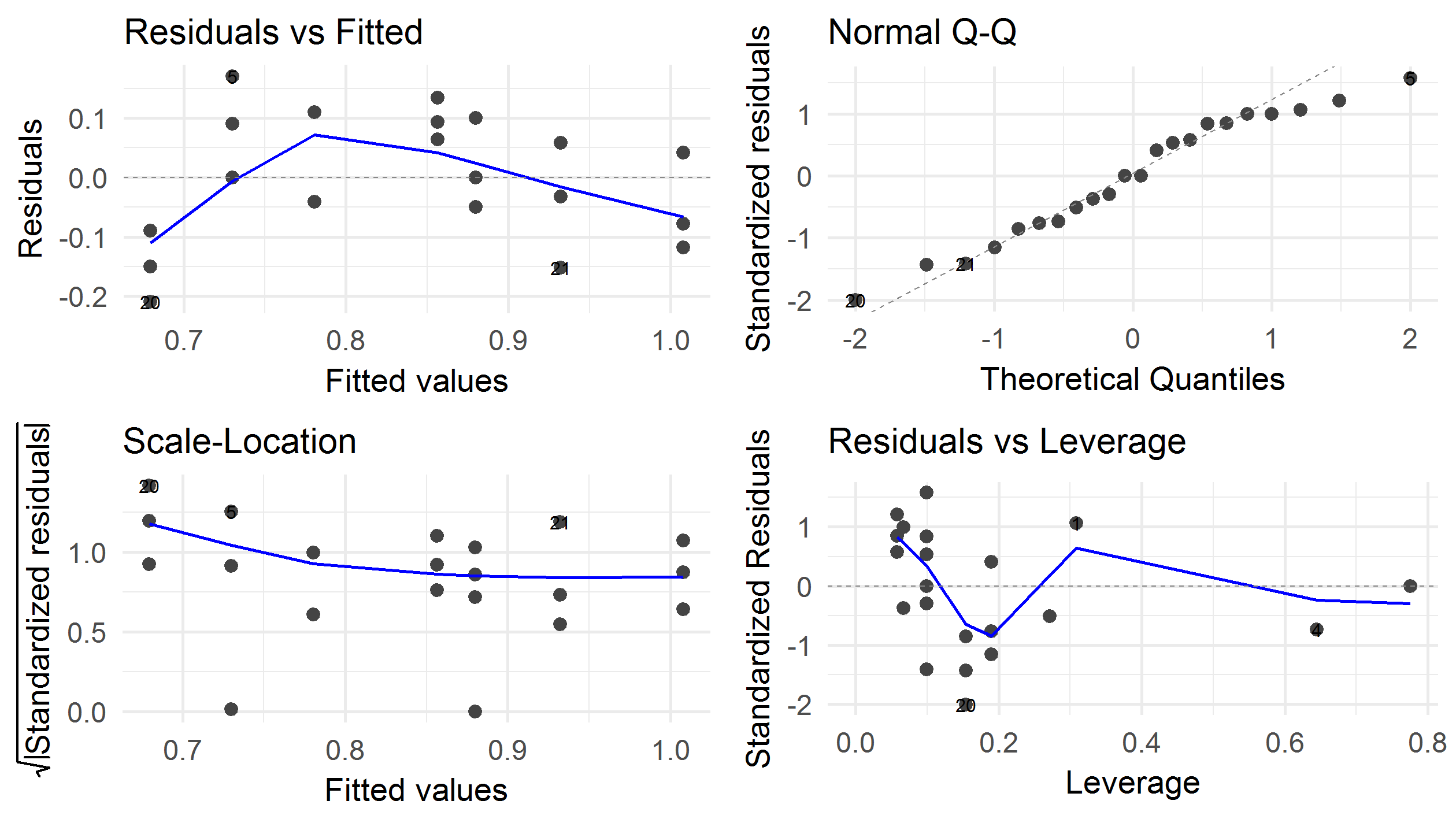
Supplementary Tissue molar C:N by DMSO:DMSP

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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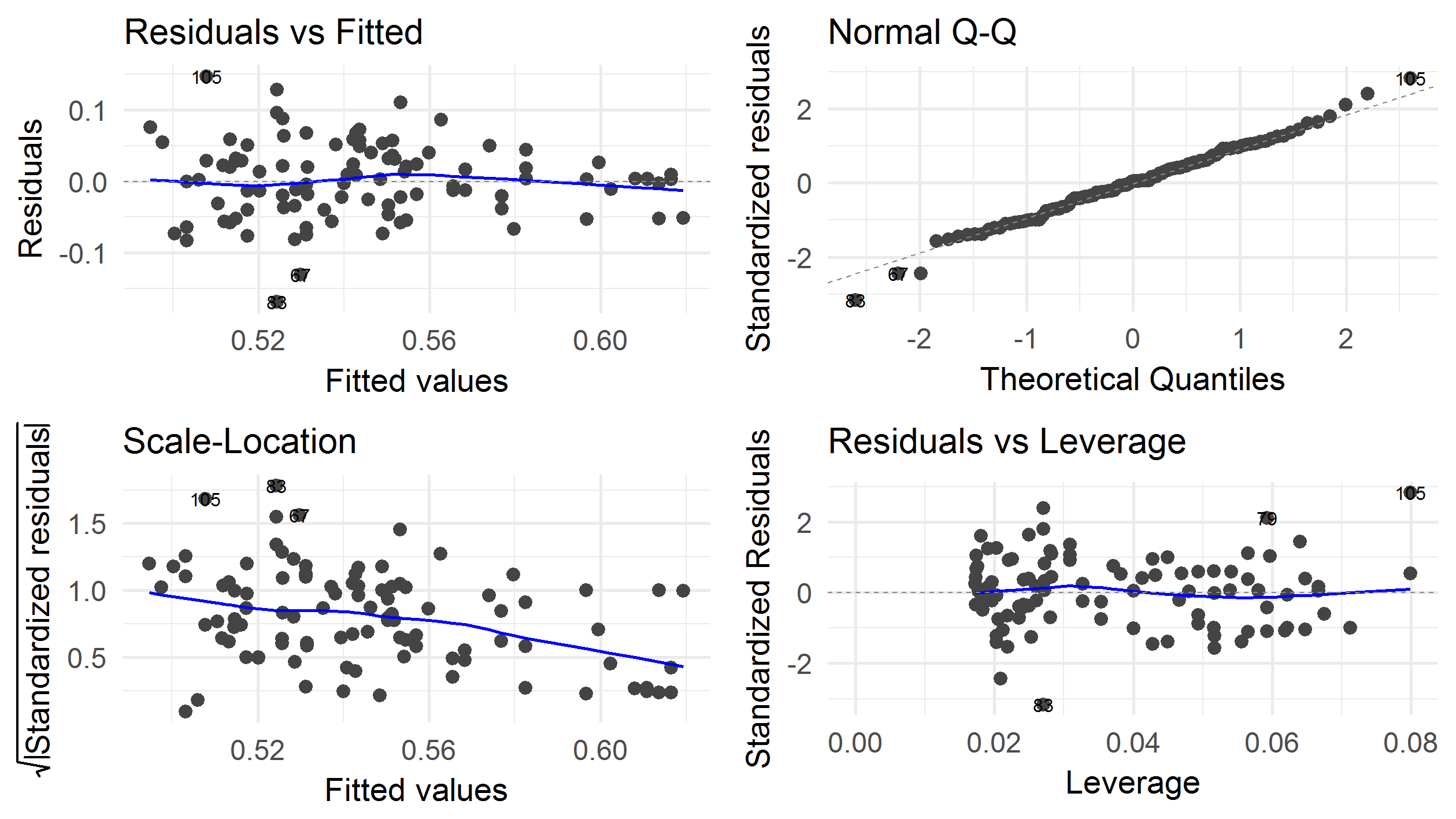
Supplementary Sediment δ15N by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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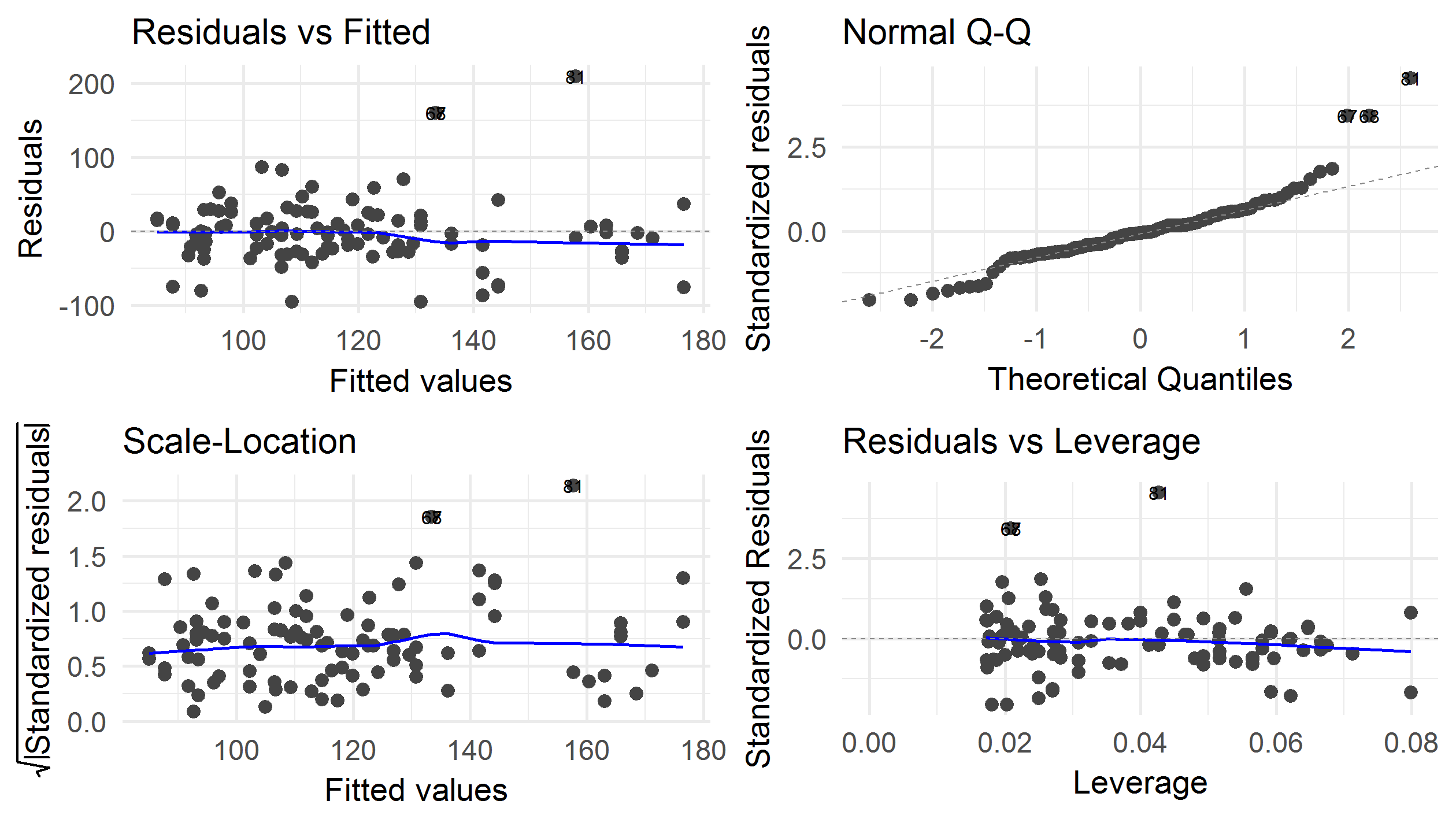
Supplementary DIC of sea water by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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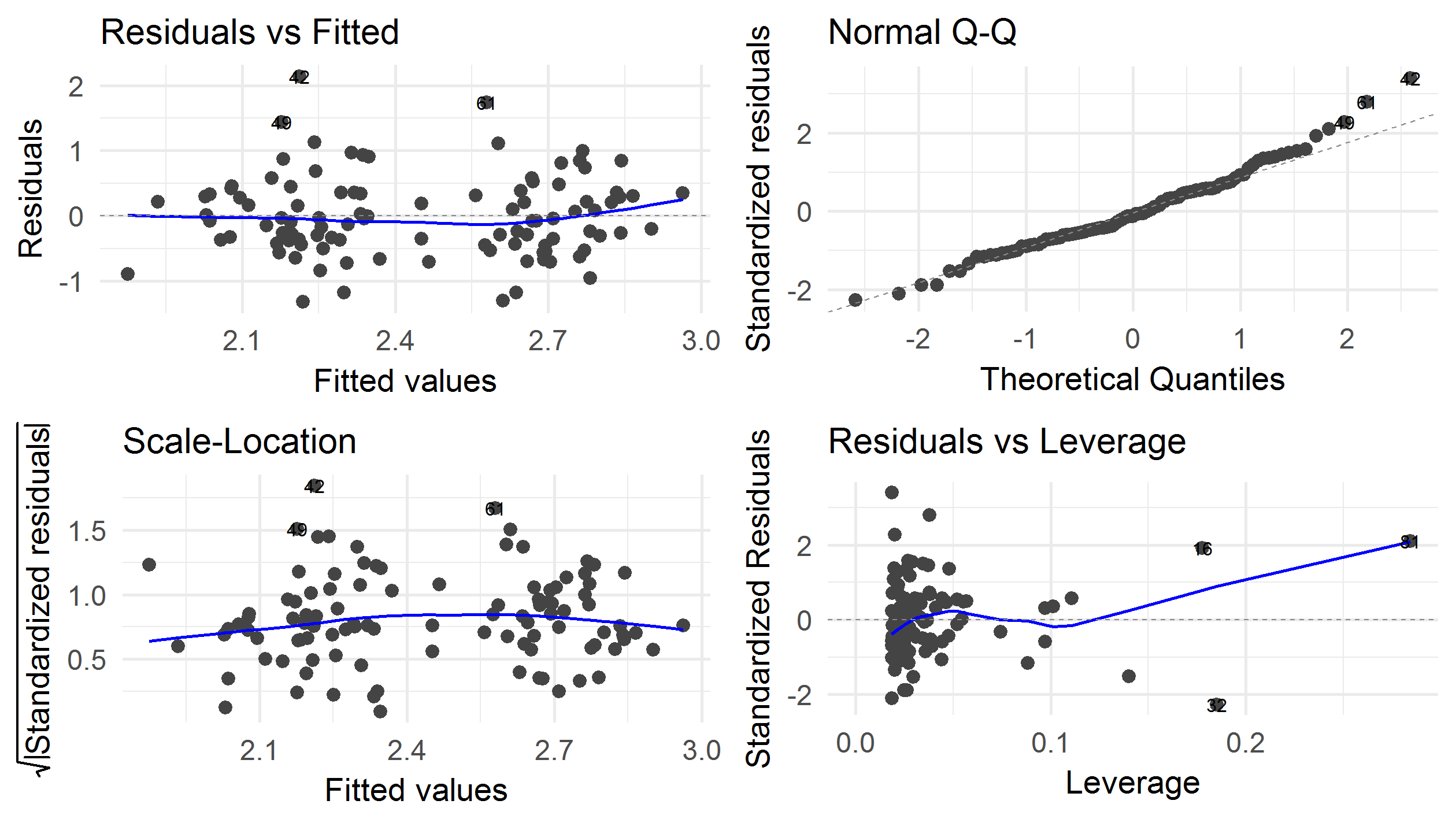
Supplementary M RLC[Alpha] by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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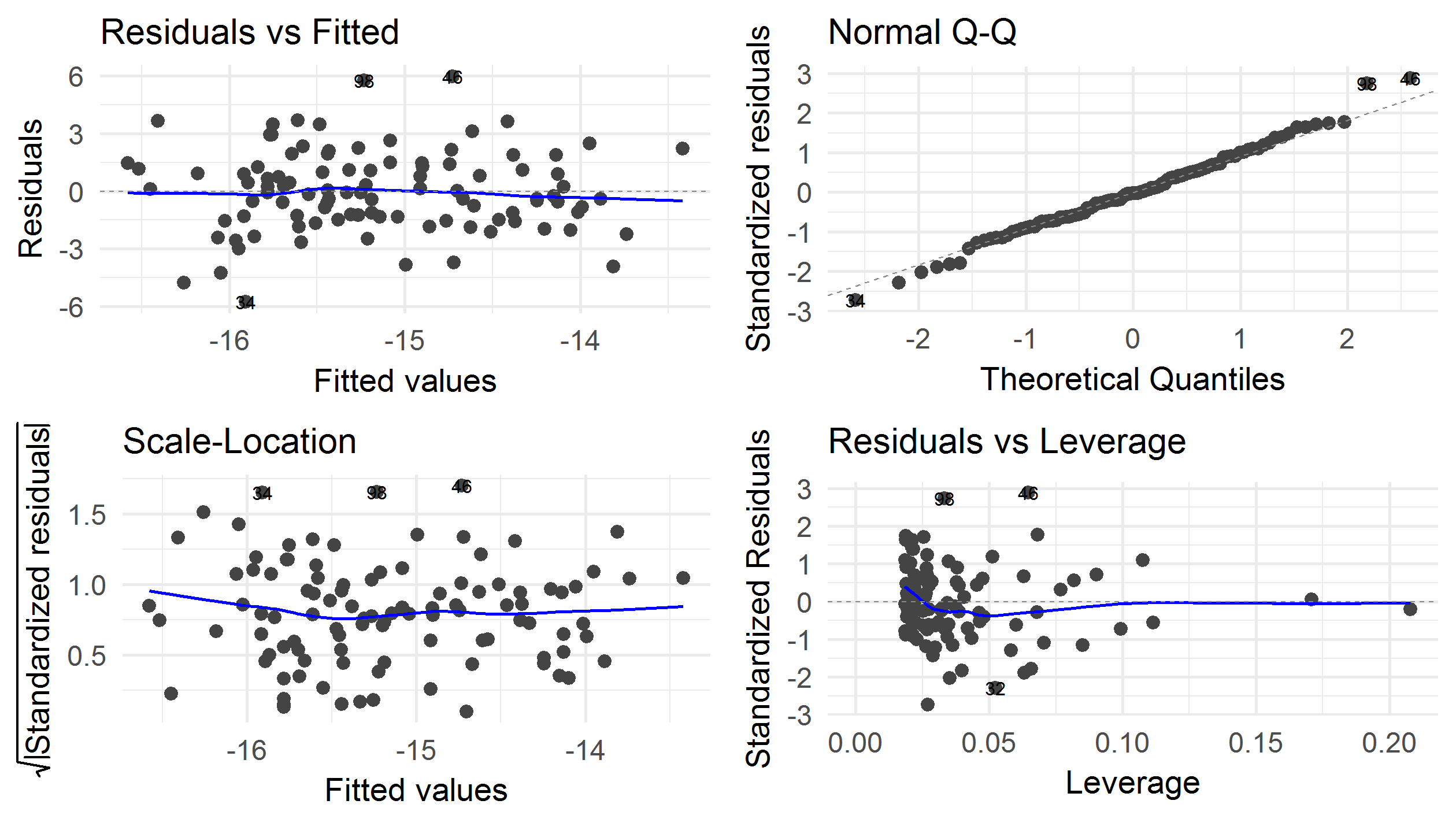
Supplementary RLC[Ek] by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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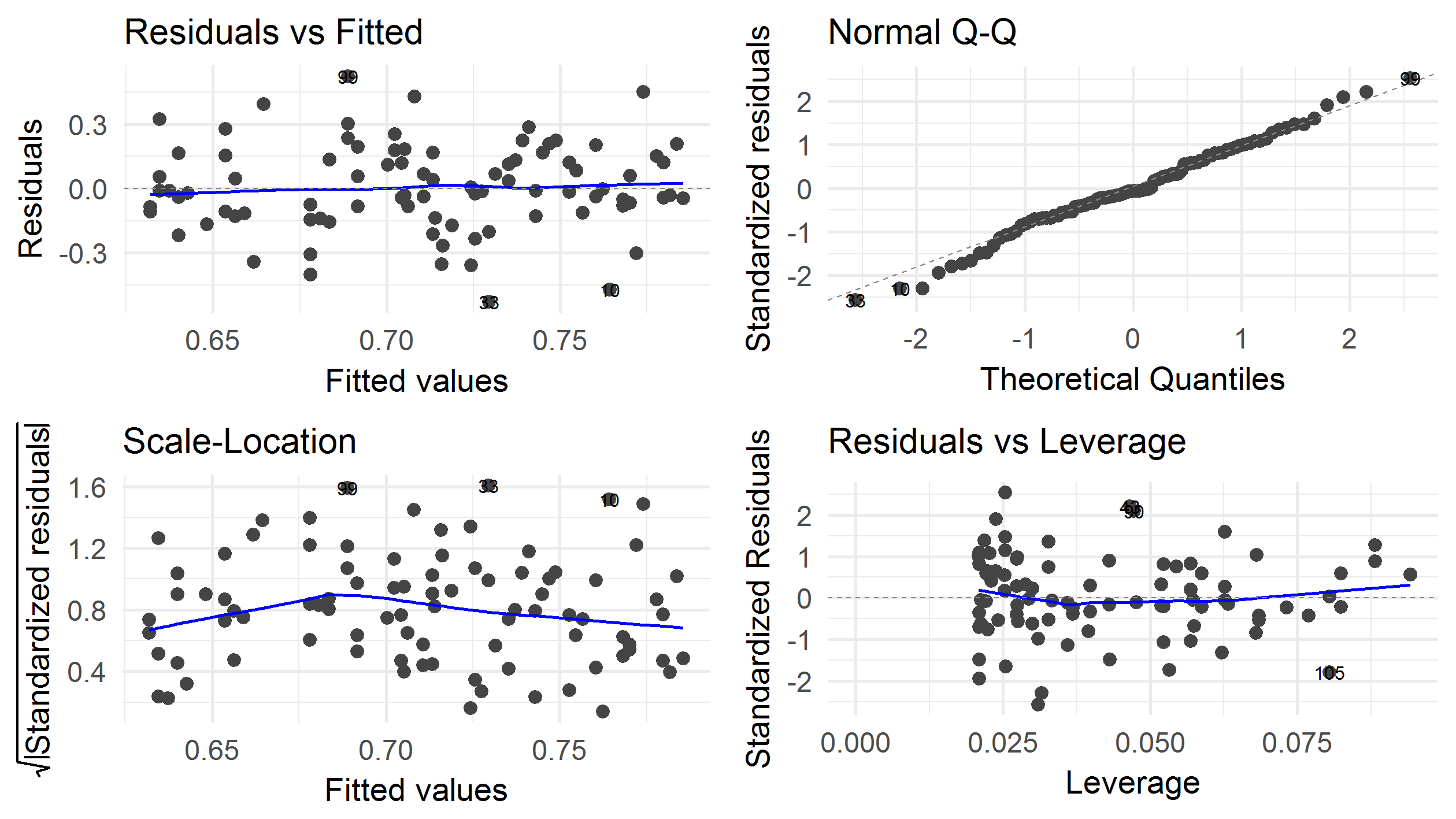
Supplementary Tissue δ15N by RLC[rETRmax ]

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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Supplementary Tissue δ15N by δ13C differential

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*

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Supplementary DMSO:DMSP by Depth

*From top left, clockwise, plots reveal deviations from: linearity, normality, outliers, and heteroskedasticity.*